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(54) ABNORMAL VOLTAGE DETECTION CIRCUIT FOR CHOPPER

(57) Abstract:

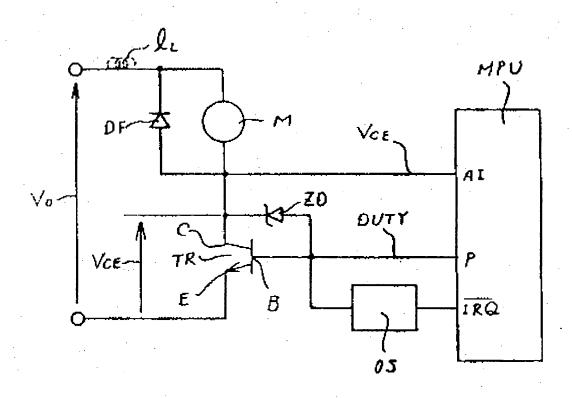
PURPOSE: To protect a chopper against overvoltage, by detecting that the termi nal voltage of the chopper is clamped to Zener voltage for longer time than a predetermined time.

CONSTITUTION: A motor M and a

of overvoltage, provision of base signal is stopped from next cycle. suppress the collector-emitter voltage with a DC power source V0, and a the Zener voltage. Upon judgement is made for the voltage higher than voltage while overvoltage judgement voltage VCE lower than the Zener perform speed control of the motor signal DUTY from the pulse width microcomputer MPU outputs a base and the base B of the TR in order to diode DF is connected in parallel Normal judgement is made for the ing the voltage VCE of the TR. analog input terminal AI for receiv M. The microcomputer MPU has an terminal P and controls the TR to VCE below the Zener voltage. A is connected between the collector C with the motor M. A Zener diode ZD transistor TR are connected in series

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